

DataUp Add-In Programmer's Guide



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Version History

Version	Date	Notes
1.0	2/15/13	Initial Draft
1.1	2/25/13	First release
1.2	5/3/13	Minor edits

About the DataUp Project

In today's technologically advanced world, the data generated by researchers is increasingly born digital and subject to intensive transformation and analyses before publication. The various file formats, software, and hardware required to succeed in the modern research landscape can become daunting, especially since education about digital data management has not kept pace with these technological advancements. There is a significant gap between the data management skills needed by modern researchers and their current abilities; the gap is more noticeable given the current increase in funder requirements for data management plans and requests by journal publishers to make supporting data publicly available alongside traditional research articles.

The DataUp project was born out of this need for seamless integration of data management into the researchers' current workflows. We recognized that the large majority of Earth, environmental, and ecological scientists use spreadsheets in the course of their data collection and organization; rather than requiring they learn a new program, we decided to meet them where they already work: Microsoft® Excel and related spreadsheet software.

The DataUp project's goals were to facilitate data management, sharing, and archiving for scientists. The resulting tools from the DataUp project are part of the Investigator Toolkit for DataONE, an NSF DataNet project building cyber-infrastructure that links together existing archives of ecological and environmental scientific data. The OuterCurve Foundation holds the code's copyright and DataUp is part of their Research Accelerators Gallery.

The DataUp project is run through the University of California Curation Center (UC3) at the California Digital Library, a division of the University of California Office of the President. Project funders were the Gordon and Betty Moore Foundation and Microsoft Research Connections.

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1 Introduction

The DataUp Excel add-in is a Model-View-Controller (MVC) based program that emphasizes reusable code and a separation of concerns. As with all MVC applications, the DataUp add-in is divided into three components: controller, model, and view.

2 Excel.AddIn Folders

This section provides information for files, functions, or classes that are used in the Excel.Addin folders.

Table 1: Excel.Addin Folder

Name	Description
CustomTaskPaneHost	Required designer variable. Host control for Custom
	Task Pane.
Dispose	Cleans up any resources being used.
InitializeCustomTaskPane	Initializes the custom task pane.
InternalStartup	Required for Designer support. Do not modify the
	contents of this method with the code editor.
Ribbon_Load	Sets the Excel application to Common.Globals so it
	can be used in the local add-in.
ThisAddIn	Loads the plug-in and sets or gets the Excel
	application object.
ThisAddIn_Shutdown	Triggers when the plug-in gets released. This
	procedure is handled by VSTO and should be used if
	you need to preform additional actions before the
	plug-in releases and closes.
ThisAddIn_Startup	Add-in startup event. Contains the data that can be
	passed from the event sender and is inherited from
	the System.EventArgs class.

Table 2: Excel.Addin Controller Folder

Name	Description
CacheRepositoryDetails	Gets the repository cache details list.
Controller	Creates general information such as the user name, today's date, title of dataset, key words, repository name and contact information.
Instance	Gets Controller instance.

Table 3: Excel.Addin View Folder

Name	Description
AlertMessage	Class members include IsCancelButtonClicked,
	Model, AlertMessage().
ErrorPane	Class members include ErrorPane(), Model.
RepositoryViewPane	Class memebers include Model, Password.
PostFileViewPane	Class members include Model, Password.

Table 4: Excel.Addin Extensions Folder

Name	Description
ErrorDetailExtension	Member of
	SetValuesFrom(ErrorDetail,ErrorDetailViewModel)
MetadataDetailExtension	Members include SetValuesFrom(MetadataDetail,
	MetadataViewModel),
	SetKeyValuesFrom(KeyValue,MetadataViewModel)
MetadataViewModelExtensions	Members include
	SetValuesFrom(MetadataViewModel,
	MetadataDetail),
	SetCitationValuesFrom(MetadataDetail,
	MetadataDetail)

Table 5: Excel.Addin Helpers Folder

Name	Description
CanExecute	Defines the method that determines whether the command can execute in its current state. Objects can be set to null if the command does not require data to be passed.
Delegate Command	Member DelegateCommand initializes new instance of the DelegateCommand class.
ErrorPaneDataTemplateSelector	Members include SummaryTemplate, SheetTemplate, SelectTemplate(object, DependencyObject).
Excecute	Defines the method to be called when the command is invoked. Objects can be set to null if the command does not require data to be passed.
HandlePasswordChange	Sets flag to indicate the password is getting updated and pushes the new password into the BoundPassword property.
LocalizedStrings	Initializes a new instance of the LocalizedString class and gets the resources instance.
OnBindPasswordChanged	When the BindPassword attatched property is set on a password box, this starts listening to the PasswordChange event.

Table 6: Excel.Addin Obj Folder

File Name	Description
AlertMessage.g.i.cs	Use caution when modifying these files. The
ErrorPane.g.i.cs	code was generated by a tool and changes to
GenerateCitationViewPane.g.i.cs	this file may cause incorrect behavior and will
GeneratedInternalTypeHelper.g.i.cs	be lost if the code is regenerated. Runtime
MetadataViewPane.g.i.cs	version 4.0.30319.296.
PostWizard.g.i.cs	
RepositoryViewPane.g.i.cs	
RepositoryWindow.g.i.cs	
TaskPane.g.i.cs	
UserCredentials.g.i.cs	

Table 7: Excel.Addin Properties Folder

Name	Description
AssemblyInfo.cs	General information about an assembly is
Assembly mio.cs	controlled through the following attributes:
	AssemblyTitle, AssemblyDescription,
	Assembly Configuration, Assembly Company,
	AssemblyProduct, AssemblyCopyright, and
	CLSCompliant.
ComVisible attribute	Setting this to false make the types in this
Com violate attribute	assembly not visible to COM components. If you
	need to access a type in this assembly from
	COM, set the COMVISIBLE attribute to true on
	that type.
Resources.Designer.cs	Use caution when modifying this file. The code
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	was generated by a tool and changes to this file
	may cause incorrect behavior and will be lost if
	the code is regenerated. Runtime version
	4.0.30319.296.
Resources	A strongly-typed resource class, for looking up
	localized strings. This class was auto-generated
	by StronglyTypedResourceBuilder via a tool like
	ResGen or VisualStudio. To add or remove a
	member, edit the .ResX file then rerun ResGen
	with the /str option or rebuild your VS project.
ResourceManager	Returns the cached ResourceManager instance
	used by this class.
Culture	Overrides the current thread's CurrentUICulture
	property for all resource lookups using this
0 1 11 15 11	strongly typed resource class.
CacheNotExist	Looks up a localized string similar to "Cache
Oh LVOLE	does not contain any stored values."
CheckXSLErrors	Looks up a localized string similar to "There are
	embedded objects in the data file. Would you like
ContinuoPuttoni abal	to remove all of them?"
CSVCompatibility	Looks up a localized string similar to "Continue?"
CSVCompatibility	Looks up a localized string similar to "Would you like to check for CSV compatibility?"
DialogTitle	Looks up a localized string similar to "DataUp."
EnterFields	Looks up localized string similar to "DataOp." Looks up localized string similar to "Please enter"
LINGIFICIUS	al fields."
EnterMetadatalist	Looks up localized string similar to "Please
Litterivietadatalist	provide the values for the following metadata
	fields."
FixCSV	Looks up a localized string similar to "Would you
	like to fix all CSV compatibility errors
	automatically? This action may result in losing
	embedded images, charts, graphs, or other
	objects."
GenerateMetadata	Looks up localized string similar to "Metadata is
	missing. Would you like to generate Metadata?"
	g. Trouis jos mie to generate metadata.

Name	Description
IdentifierExist	Looks up localized string similar to "Identifier for
	the document already exists. Would you like to
	overwrite existing identifier?"
IdentifierMissing	Looks up localized string similar to "Identifier for
3	this document is missing. Would you like to
	acquire the identifier from repository?"
IgnoreButtonLabel	Looks up a localized string similar to "Ignore."
InformUserCsv	Looks up localized string similar to "Publish file
	as CSV will remove all embedded images,
	charts, graphs, and other objects from the
	workbook."
MissingCitation	Looks up localized string similar to "Citation for
g	this document is missing. Would you like to
	generate citation or continue without citation?"
ParameterMetadataDescription	Looks up a localized string similar to "Please
	select a range of cells from worksheet."
ParameterMetadataTitle	Looks up localized string similar to "Parameter
. aramotomotadata mio	Metadata."
PasswordRequired	Looks up a localized string similar to "Password
. acemeral toquilea	cannot be blank, please enter the password."
RegeneratedIdentifier	Looks up localized string similar to "Please
regeneratediaentiner	provide the values for the following metadata
	fields and re-acquire the identifier."
RegistryClear	Looks up localized string similar to "Cache has
region y croan	been cleared."
RemoveCSVErrors	Looks up localized string similar to "There are
	embedded objects in the data file. All embedded
	objects will be deleted. Would you like to
	continue?"
RemoveErrors	Looks up localized string similar to "Would you
	like to remove all embedded images, charts,
	graphics, and other objects from the workbook?"
RemoveXSLErrors	Looks up localized string similar to "All
	embedded object will be removed. Would you
	like to proceed?"
RequiredMetadata	Looks up localized string similar to "Following
- 4-	required metadata values for citation are
	missing."
SelectRange	Looks up localized string similar to "Selected
5 -	range is empty or not valid. Please select a non-
	empty range or a valid range."
SuccessPostMessage	Looks up localized string similar to "Your data file
3	was submitted successfully. You will receive an
	email shortly with your unique identifier and
	submission information."
Settings.Designer.cs	Use caution when modifying this file. The code
J. 11 J 1111	was generated by a tool and changes to this file
	may cause incorrect behavior and will be lost if
	4.0.30319.296.
	the code is regenerated. Runtime version

Table 8: Excel.Addin ViewModels Folder

Name	Description
Category	Gets or sets the category of error.
CategoryHighCount	Gets or sets total number of errors for high
	category.
CategoryLowCount	Gets or sets total number of errors for low
	category.
CategoryMediumCount	Gets or sets total number of errors for medium
	category.
Description	Gets or sets description.
DisplayErrorAddress	Gets or sets Address of the error
Error	Gets or sets the type of error.
ErrorAddress	Gets or sets Address of the error.
Errors	Gets or sets the errors.
FixableErrorCount	Gets or sets total number of errors that can be
i Mazicziroi odalit	fixed.
GetIdentifierCompleted	Capture View window close request.
IsBusy	Gets or sets value indicating whether the
	system is busy processing data.
IsChecked	Gets or sets value indicating whether the error
	can be removed automatically or not.
IsRemovable	Gets or sets value indicating whether the error
	can be removed automatically or not.
OnNotifyPropertyChanged(string)	This is the method that should be called by
	derived classes to raise the property change
	event notification so that the binding system
	refreshes the data on the UI.
OnRequestClose	Raise window close event.
PropertyChanged	This event is handled by the binding system to
	refresh the data when the value is changed.
Recommendation	Gets or sets Recommendation.
RequestClose	Capture view window close request.
SaveButtonExecute	Saves the metadata sheet on Next button click.
Sheets	Gets or sets the details of the sheet.
SheetName	Gets or sets file or worksheet name.
Title	Gets or sets title.
TotalErrorCount	Gets or sets the TotalErrorCount.
UnFixableErrorCount	Gets or sets total number of errors that cannot
	be fixed.
ViewModelBase	This is the base class to be used by all
	viewModels that want the property change
	notifications to be raised for the binding
	system.

3 Excel.BizLogic Folders

This section provides information for files, functions, or classes that are used in the Excel.BizLogic folders.

Table 9: Excel.BizLogic Extensions Folder

Name	Description
ClearParameter	Clears parameter metadata table.
GetExistingMetadata	Gets the metadata list from the given worksheet.
GetHeaderRow	Gets the header row of the given range.
UpdateMetadata	Updates metadata in the given worksheet
UpdateparaMetadata	Updates the list of parameter metadata in the given worksheet
WorkbookExtensions	Extensions for workbook class
XLGetComments	Retrieve a List of all the comments in a workbook.
XLGetChart	Retrieve a List of all the charts in a workbook.
	Given an Excel workbook, and the title of a chart to
	export, create a new XML file containing the chart.
	Although the chart won't be loadable in Excel, you
	could extract the chart from it at a later date.
XLGetShapes	Retrieve a List of all the shapes in a workbook.
XLGetNonContiguous	Retrieve a List of all non contiguous data in a
	workbook
XLGetMixedType	Retrieve a List of all the mixed type in a workbook.
XLGetCellRelatedErrors	Retrieve a List of all the color coded cells in a
	workbook.

Table 10: Excel.BizLogic Interfaces Folder

Name	Description
ClearAllParameter	Clears the parameter metadata.
FixAll	This function can be used to fix all errors in the
	given workbook. When set to True, the fix is
	successful, otherwise False.
FixError	This function can be used to fix the error in the
	given workbook. When set to True, the fix is
	successful, otherwise False.
FixErrors	This function is used to fix the list of errors in the
	given workbook.
GetCsvZipFile	This method is used to convert the given workbook
	to csv files and then compress.
GetDocumentProperties	Gets the default document properties.
GetHeaderRow	This function can be used to get the details of the
	parameter metadata.
GetIdentifier	Gets an identifier from repository.
GetMetadata	This function can be used to get the details of the

Name	Description
	metadata.
GetParameterMetadata	Get the list of parameter metadata
GetUserAgreement	Gets the user agreement for the given repository.
GetRespositories	This method if used to get the list of repositories.
GetSheetNames	Gets list of all sheet names in the current
	workbook.
GetWorkbookName	Gets the workbook name.
GetXslFilePath	Gets the temp path of the XLS file.
IExcelManager	Interface for managing Excel errors.
IsGeneralMetadataPresent	Check if the metadata table is available or not.
IsMetadataSheetAvailable	Check if the metadata sheet is available or not.
IMetadataManager	Interface for managing Excel errors.
IRepositoryManager	Interface for validating for errors in the underlying
	Excel file.
PostAsCSV	Post file as CSV.
PostAsXSL	Post file as XLS.
PublishFile	Publish file to repository.
Select	This function is used to Select the error in the
	given workbook.
UpdateMetadata	Updates the metadata.
UpdateParaMetadata	Updates the parameter metadata.
Validate	This function can be used to validate Excel for
	CSV compatibility errors.

Table 11: Excel.BizLogic Managers Folder

Name	Description
ClearAllParameter	Clears the parameter metadata.
ExcelManager	Implements IExcelManager and creates an
	instance of class ExcelManager.
FixAll	This function can be used to fix all errors in the
	given workbook.
FixError	This function can be used to fix the error in the
	given workbook.
FixErors	This function can be used to fix the error in the
	given worksheet.
GetCsvZipFile	This method is used to convert the given workbook
	to a CSV file and then compress.
GetDocumentPropeerties	Gets the default document properties.
GetHeaderRow	This function can be used to get the details of the
	parameter metadata.
GetIdentifier	Gets an identifier from the repository.
GetMetadata	This function can be used to get the details of the
	metadata.
GetParamterMetadata	Get the list of parameter metadata
GetRespositories	This method gets a list of repositories.
GetSheetNames	Gets list of all sheet names in the current
	workbook.
GetUserAgreement	Gets the user agreement for the given repository.
GetWorkbookName	Gets the workbook name.
GetXslFilePath	Gets the temporary path of the XLS file.
IsGeneralMetadataPresent	Check if metadata table is available or not.
IsMetadataSheetAvailable	Check if the metadata sheet is available or not.
MetadataManager	Creates an instance of MetadataManager class.
PublishFile	Publish file to repository.
Select	This function is used to Select the error in the
	given workbook.
UpdateMetadata	Updates the metadata.
UpdateParaMetadata	Updates the parameter metadata.
Validate	This function can be used to validate the Excel for
	CSV compatibility errors.
Workbook	Gets or sets the workbook instance associated
	with the Excel manager.

Table 12: Excel.BizLogic Models Folder

Name	Description
Authorization	Gets or sets authorization.
Category	Gets or sets the category of error
Content	Gets or sets the content of the file.
ControlName	Gets or sets the name of the control
CreateFailureStatus	Creates failure status.
CreateSuccessStatus	Creates success status.
Description	Gets or sets the Description of the error or
	metadata, depending on which file the class is
	used in.
Error	Gets or sets the type of error
ErrorAddress	Gets or sets the address / unique identifier of the
	error.
FieldType	Gets or sets the field type of metadata.
FileName	Gets or sets the name of the file.
Identifier	Gets or sets the identifier of the file.
IsCompressed	Gets or sets the value indicating whether the file is
	compressed or not.
IsRemovable	Gets or sets value indicating whether the error can
	be removed automatically or not.
IsRequired	Gets or sets the value indicating whether the
	metadata is required or not.
IsSuccess	Gets or sets the value indicating whether the
	operation is successful or not.
Message	Gets or sets the message of the response.
Name	Gets or sets the name of metadata.
Recommendation	Gets or sets the recommendation for the error.
RepositoryName	Gets or sets name of the repository.
SheetName	Gets or sets the name of the sheet.
Туре	Gets or sets the type of metadata.
Units	Gets or sets the units of parameter metadata.
Value	Gets or sets value of metadata.
What	Gets or sets what detail.
When	Gets or sets when detail.
Who	Gets or sets who detail.

Table 13: Excel.BizLogic Properties Folder

File Name	Description
AssemblyInfo.cs	General information about an assembly is controlled through the following set of attributes. AssemblyTitle, AssemblyDescription, AssemblyConfiguration, AssemblyCompany, AssemblyProduct, AssemblyCopyright, and CLSCompliant. Change these attribute values to modify the information associated with an assembly.

Table 14: Excel.BizLogic Repositories Folder

Name	Description
Clear	Clear values.
IsAgreementAccepted	Gets or sets the value indicating whether the user
	agreement is accepted or not.
IsPasswordRequired	Gets or sets the value indicating whether the
	password is required or not for the repository.
RepositoryName	Gets or sets the name of the repository.
RepositoryType	Gets or sets the type of the repository.
UserName	Gets or sets the username of the repository.
UserPassword	Gets or sets the password of the repository.

Table 15: Excel.BizLogic Service References Folder

Name	Description
RepositoryDataContext	There are no comments for RepositoryDataContext in
	the schema.
ResolveNameFromType	Since the namespace configured for this service
	reference in Visual Studio is different from the one
	indicated in the server schema, use type-mappers to
	map between the two.
ResolveTypeFromName	Since the namespace configured for this service
	reference in Visual Studio is different from the one
	indicated in the server schema, use type-mappers to
	map between the two.

4 Excel.Common Folders

This section provides information for files, functions, or classes that are used in the Excel.Common folders.

Table 16: Excel.Common Folder

Name	Description
AddinTraceSource	Gets trace source that will be used for tracing and
Addittraceodatee	logging.
AppRegistryKey	Sets the application registry key.
AppRegistryPath	Sets the application registry path.
CitationContent	Citation field name.
CitationFormat	Citation format.
CitationXmlPath	Gets CitationXmlPath.
DcxlWebServiceLink	Gets DataUp Web Service Link.
DefaultDateFormat	Default date format supported.
DemoVideoLink	Gets DataUp Demo Video Link.
GetAppInstallationLocation	This method reads the registry to obtain the
Conspiriounduorizodation	application installation location.
GetExcelColumnName	Gets the alphabet that represents the given column
	number.
GetIdentifierProfile	Gets profile string value for GetIdentifier request.
GetPostProfile	Gets Profile string value for Post request
GetStandardUnits	This method gets the list standard units supported.
Globals	Global state to be used by all
Helper	Helper class.
HttpAddress	Identifier field name.
Identifier Key Name	Identifier field name.
LogException	Constructs and logs the exception message.
MaxErrorCount	Sets max error count.
MetadataRangeName	Metadata range name.
MetadataSheetName	Metadata sheet name.
MetadataTableStyleName	Metadata table style name.
MetadataXmlPath	Gets MetadataXmlPath.
ParameterMetadataType	Sets ParameterMetadataType.
PostFileTimeOutMinutes	Gets post file timeOut in minutes.
SpecialCharacter	Gets the special character regex from app config.
SpecialCharKeySequence	Gets the special character key sequence regex from
	app config.
StandardUnitsPath	Gets StandardUnitsPath.
ValidateEmail	Regular expression for validating email address.
ValidatePhone	Regular expression for validating Phone.

Table 17: Excel.Common Extensions Folder

Name	Description
ActiveSheet	Activates the sheet.
CheckNotNull	Checks whether the given parameters are null or
	not. In case of null, throws Argument null
	exception.
DecodeFrom64	The extension method can be used to decode the
	base 64 encoded string.
DeserializeXML	Gets the decoded version of the string.
EncodeTo64	The extension method creates a Base64 encoded
	string from a normal string.
EnumExtensions	Class having the extension methods needed for
	Enums.
EventHandlerExtensions	Contains extension methods for raising (firing)
	events.
GetDataArray	This function can be used to retrieve the data for
	the selected range in array format.
GetMetadataTable	Gets the metadata table.
GetParaMetadataTable	Gets parameter metadata table.
GetSheetNames	Gets all the sheets in the given workbook.
GetValidRange	Gets the valid range from the workbook.
IsEmpty	Checks if the given range or worksheet is empty or
	not.
IsValid	Checks if the sheet is valid or not.
ObjectExtensions	Class having the extension methods needed for all
	Objects.
OnFire	Fires the specified event handler delegate with the
	specified sender and event arguments.
RemoveMetadataTable	Removes the metadata table from the current
0	worksheet.
SerializeExtensions	Class having the extension methods needed for
Opidia Ohioat	Serialization This area to a said a serial in a serial
SerializeObject	This method can be used to serialize any object
CompliantoCtring	using DataContractSerializer.
SerializeToString	Serializes the XML content and returns the content
Socializa To VMI	as a string.
SerializeToXML ToEnum	Gets the decoded version of the string.
I OLIIUIII	Converts a string or an integer value to respective Enum.
XLCreateMetadataWorksheet	Creates metadata worksheet.
XLGetDocumentProperties	Gets the default properties of the current
ALOCIDOCUITICITI TOPETILES	workbook.
XLGetMetadataWorksheet	Gets the metadata worksheet instance from the
, 12 Souristadata Volkolioot	workbook. If the metadata sheet is not present
	then it will create one and then return the
	worksheet instance.
XLGetLastWorksheet	Gets the last workbook instance.
XLGetWorksheet	Gets the worksheet instance from the workbook
	from the specified worksheet name.
	pro

Name	Description
XLRemoveChart	Remove the charts in a workbook.
XLRemoveCharts	Remove all the charts in a workbook. Given an Excel worksheet, and the title of a chart to export,
	create a new XML file containing the chart.
	Although the chart won't be loadable in Excel, you could extract the chart from it at a later date.
XLRemoveColourCell	Remove the color-coded cells in a workbook.
XLRemoveColourCells	Remove all the color-coded cells in a workbook.
XLRemoveComment	Remove the comment in a workbook.
XLRemoveComments XLRemoveMorgadColla	Remove all the comments in a workbook.
XLRemoveMergedCells	Remove all the merged cells in a workbook.
XLRemoveRange	Remove the merged cells in a workbook.
XLRemoveShape	Remove the shapes in a workbook.
XLRemoveShapes	Remove all the shapes in a workbook for a given
VI Damaya Chaat	sheetname.
XLRemoveSheet	Removes the specified sheet from workbook.
XLRemoveTable	Remove the tables in a workbook.
XLRemoveTables	Remove all the tables in a workbook.
XLSelectBlank	Selects the blank cells in a workbook.
XLSelectChart	Selects the charts in a workbook.
XLSelectColourCoded	Selects the color cells in a workbook.
XLSelectComma	Selects the comma cells in a workbook.
XLSelectComment	Selects the comments in a workbook.
XLSelectMixedType	Selects the mixed type in column in a workbook.
XLSelectNonContiguous	Selects the mixed type in column in a workbook.
XLSelectRange	Selects the merged cells in a workbook.
XLSelectShape	Selects the shapes in a workbook.
XLSelectSheet	Selects the sheets in a workbook.
XLSelectSpecialChar	Selects the special character cells in a workbook.
XLSelectTables	Selects the tables in a workbook.
WorkbookExtensions	Extensions for workbook class.

Table 18: Excel.Common Properties Folder

File Name	Description
AssemblyInfo.cs	General information about an assembly is controlled through the following attributes: AssemblyTitle, AssemblyDescription, AssemblyConfiguration, AssemblyCompany, AssemblyProduct, AssemblyCopyright, and CLSCompliant.
Resources.Designer.cs	Use caution when modifying this file. The code was generated by a tool and changes to this file may cause incorrect behavior and will be lost if the code is regenerated. Runtime version 4.0.30319.296.

5 Additional References

C# Coding Conventions (C# Programming Guide) - http://msdn.microsoft.com/en-us/library/ff926074(v=VS.100).aspx

Design Guidelines for Developing Class Libraries - http://msdn.microsoft.com/en-us/library/ms229042.aspx